

Alessandro Fanti

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

775
citations

566801

15
h-index

713013

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120
all docs

120
docs citations

120
times ranked

652
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Magnetic Scaffold Loading Patterns on Their Hyperthermic Potential Against Bone Tumors. IEEE Transactions on Biomedical Engineering, 2022, 69, 2029-2040.	2.5	15
2	Evaluation of a Smectite Adsorption-Based Electrostatic System to Decontaminate Fâ€™ Rich Thermal Waters. Water (Switzerland), 2022, 14, 167.	1.2	1
3	Control of electronic band profiles through depletion layer engineering in coreâ€™shell nanocrystals. Nature Communications, 2022, 13, 537.	5.8	27
4	A Robust SVM Color-Based Food Segmentation Algorithm for the Production Process of a Traditional Carasau Bread. IEEE Access, 2022, 10, 15359-15377.	2.6	3
5	Design and Characterization of Modified Comb Patch Antennas. IEEE Access, 2022, 10, 36220-36232.	2.6	2
6	Design and Characterization of Magnetic Scaffolds for Bone Tumor Hyperthermia. IEEE Access, 2022, 10, 19768-19779.	2.6	12
7	Designing a Microwave Moisture Content Sensor for Carasau Bread: A Feasibility Study. , 2022, , .		2
8	Two Co-Linear Transitions for Q-Band Horn Waveguide Dense Cluster. , 2022, , .		0
9	Preliminary Design of a Double Ridge Waveguide Device for Monitoring the Complex Permittivity of Carasau Bread Doughs. , 2022, , .		3
10	Preliminary Study of Bone Tumors Hyperthermia at Microwaves Using Magnetic Implants. , 2022, , .		4
11	A Microwave Imaging Technique Based on Artificial Neural Networks for Neck Tumors Detection. , 2022, , .		0
12	Microwaves as Diagnostic Tool for Pituitary Tumors: Preliminary Investigations. Electronics (Switzerland), 2022, 11, 1608.	1.8	0
13	Upgrading of the L-P Band Cryogenic Receiver of the Sardinia Radio Telescope: A Feasibility Study. Sensors, 2022, 22, 4261.	2.1	5
14	Microwave Imaging for the Diagnosis of Cervical Diseases: A Feasibility Analysis. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 277-285.	2.3	18
15	Towards the Robust and Effective Design of Hyperthermic Devices: Improvement of a Patch Antenna for the Case Study of Abdominal Rhabdomyosarcoma With 3D Perfusion. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 197-205.	2.3	12
16	Optimized Design and Multiphysics Analysis of a Ka-Band Stacked Antenna for CubeSat Applications. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 143-157.	1.4	7
17	A Blockchain-Based Traceability System in Agri-Food SME: Case Study of a Traditional Bakery. IEEE Access, 2021, 9, 62899-62915.	2.6	62
18	5G Wideband Stacked Patch Antennas. , 2021, , .		4

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19	A Microwave Imaging Technique for Neck Diseases Monitoring. , 2021, , .		0
20	The Ad Hoc Back-End of the BIRALET Radar to Measure Slant-Range and Doppler Shift of Resident Space Objects. Electronics (Switzerland), 2021, 10, 577.	1.8	11
21	Development and Validation of a Finite Periodic Transmission Line Model for Body Channel Communication. , 2021, , .		0
22	Recent Advances of the BIRALET System about Space Debris Detection. Aerospace, 2021, 8, 86.	1.1	10
23	An In-Line Coaxial-to-Waveguide Transition for Q-Band Single-Feed-Per-Beam Antenna Systems. Applied Sciences (Switzerland), 2021, 11, 2524.	1.3	9
24	Empowering Traditional Carasau Bread Production Using Wireless Sensor Network. , 2021, , .		6
25	Microwave Imaging of the Neck by Means of Artificial Neural Networks for Tumor Detection. IEEE Open Journal of Antennas and Propagation, 2021, 2, 1044-1056.	2.5	9
26	Multiphysics Modeling of Magnetic Scaffolds for Biomedical Applications. , 2021, , .		0
27	Microwave Characterization and Modeling of the Carasau Bread Doughs During Leavening. IEEE Access, 2021, 9, 159833-159847.	2.6	11
28	A Multiphysics Model for Bone Repair Using Magnetic Scaffolds for Targeted Drug Delivery. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2021, 6, 201-213.	1.4	8
29	Application of MRI, fMRI and Cognitive Data for Alzheimerâ€™s Disease detection. , 2020, , .		5
30	On the dielectric/thermal characterization and calibration of solutions and materials for biomedical applications. , 2020, , .		4
31	Preliminary Study and Numerical Investigation of an Electrostatic Unit for the Removal of Fluoride From Thermal Water of Ethiopian Rift Valley. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 72-82.	1.4	11
32	A Periodic Transmission Line Model for Body Channel Communication. IEEE Access, 2020, 8, 160099-160115.	2.6	11
33	Microwave Imaging of Cervical Myelopathy: A Preliminary Feasibility Assessment. , 2020, , .		1
34	Biomedical Applications of Biomaterials Functionalized with Magnetic Nanoparticles. , 2020, , .		0
35	Electromagnetic Field Levels in Built-up Areas with an Irregular Grid of Buildings: Modeling and Integrated Software. Electronics (Switzerland), 2020, 9, 765.	1.8	4
36	A Space Debris-Dedicated Channel for the P-Band Receiver of the Sardinia Radio Telescope: A Detailed Description and Characterization. IEEE Antennas and Propagation Magazine, 2020, 62, 45-57.	1.2	13

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37	Improvement and Testing of Models for Field Level Evaluation in Urban Environment. IEEE Transactions on Antennas and Propagation, 2020, 68, 4038-4047.	3.1	13
38	Improved COST 231-WI Model for Irregular Built-Up Areas. , 2020, , .		1
39	Exploitation of bi-static radar architectures for LEO Space Debris surveying and tracking: the BIRALES/BIRALET project. , 2020, , .		2
40	A Wideband Patch Antenna for 5G. , 2020, , .		1
41	Improvement of a WSN for Quality Monitoring in Carasau Bread Industry: Hardware and Software Testing. , 2020, , .		2
42	Combined Use of MRI, fMRI and Cognitive Data for Alzheimer's Disease: Preliminary Results. Applied Sciences (Switzerland), 2019, 9, 3156.	1.3	15
43	Non-linear Multiphysic Numerical Study of Bone Tumor Hyperthermia Using Magnetic Biomaterials. , 2019, , .		2
44	Orbit Determination of Resident Space Objects Using the P-Band Mono-Beam Receiver of the Sardinia Radio Telescope. Applied Sciences (Switzerland), 2019, 9, 4092.	1.3	12
45	A Dual Polarized Stacked Antenna for 5G Mobile Devices. , 2019, , .		1
46	A Wireless Sensors Network for Monitoring the Carasau Bread Manufacturing Process. Electronics (Switzerland), 2019, 8, 1541.	1.8	33
47	Multi-physic Numerical Study of Microwave Hyperthermia Treatment. , 2019, , .		1
48	Method-of-Moment Analysis of Slender Elliptic Slots. , 2019, , .		0
49	WSN Hardware for Automotive Applications: Preliminary Results for the Case of Public Transportation. Electronics (Switzerland), 2019, 8, 1483.	1.8	10
50	Optimum Design of Superficial Microwave Hyperthermia Treatment. , 2019, , .		1
51	Advantages of Using a C-band Phased Array Feed as a Receiver in the Sardinia Radio Telescope for Space Debris Monitoring. , 2019, , .		8
52	A Multiphysic Model for the Hyperthermia Treatment of Residual Osteosarcoma Cells in Upper Limbs Using Magnetic Scaffolds. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 337-347.	1.4	31
53	A Blood Perfusion Model of a RMS Tumor in a Local Hyperthermia Multi-Physic Scenario: A Preliminary Study. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 71-78.	2.3	9
54	Study and Design of a Wireless Sensors Network for the Optimization of Bread Manufacturing Process. , 2018, , .		9

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55	Design of wideband antenna for breast cancer detection. , 2018, , .		0
56	Design of a Low-Cost Microstrip Directional Coupler with High Coupling for a Motion Detection Sensor. Electronics (Switzerland), 2018, 7, 25.	1.8	9
57	Numerical Estimation of Agricultural Raised Bed Microwave Disinfection. Radio Science, 2018, 53, 1176-1186.	0.8	10
58	A Compact In-Line Waveguide-to-Microstrip Transition in the Q-Band for Radio Astronomy Applications. Electronics (Switzerland), 2018, 7, 24.	1.8	17
59	Numerical Investigation of Bone Tumor Hyperthermia Treatment Using Magnetic Scaffolds. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 294-301.	2.3	23
60	Calibration and Use of Microwave Radiometers in Multiple-site EM Wave Propagation Experiments. , 2018, , .		13
61	Robustness of flexible 7T-MRI coil behaviour. , 2017, , .		2
62	The SEMONTâ€™s database support for quad-band monitoring of EMF exposure. Measurement: Journal of the International Measurement Confederation, 2017, 99, 78-89.	2.5	5
63	Nonlinear Analysis of Soil Microwave Heating: Application to Agricultural Soils Disinfection. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 105-114.	1.4	18
64	A physically based rain attenuation model for terrestrial links. Radio Science, 2017, 52, 972-980.	0.8	17
65	The planar inductor with adjustable surface for energy harvesting applications. , 2017, , .		1
66	A robust antenna for on-body clinical applications. , 2017, , .		0
67	Space Debris Detection in Low Earth Orbit with the Sardinia Radio Telescope. Electronics (Switzerland), 2017, 6, 59.	1.8	25
68	Robustness of 7T-MRI Flexible Array Coil Behaviour. , 2017, , .		0
69	FMECA Modelling and Analysis in Blood Transfusion Chain. International Journal of Privacy and Health Information Management, 2017, 5, 23-39.	0.2	0
70	A Numerical Estimation of a RFID Reader Field and SAR inside a Blood Bag at UHF. Electronics (Switzerland), 2016, 5, 77.	1.8	6
71	Enhancement of Cell Migration Rate Toward a Superparamagnetic Scaffold Using LF Magnetic Fields. IEEE Transactions on Magnetics, 2016, 52, 1-8.	1.2	22
72	The inductors with adjustable surface area for energy harvesting utilization. , 2016, , .		3

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73	Investigation of the path reduction factor on terrestrial links for the development of a physically-based rain attenuation model. , 2016, , .		3
74	Analysis of superparamagnetic scaffolds: For bone tissue engineering in static magnetic and dynamic fields. , 2016, , .		1
75	A feasibility study for disinfection of farmland using microwaves. , 2016, , .		1
76	Development of a rain attenuation model for terrestrial links using a physically-based approach. , 2016, , .		0
77	Microwaves disinfection of farmland. Journal of Electromagnetic Waves and Applications, 2016, 30, 2165-2173.	1.0	9
78	Design and optimization of a microwave irradiated and resonant continuous biochemical reactor. Radio Science, 2016, 51, 1199-1212.	0.8	15
79	A Low-Cost Dual-Band CPW-Fed Printed LPDA for Wireless Communications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1333-1336.	2.4	21
80	Evaluation of the effects of UHF electromagnetic fields on a blood bag. , 2015, , .		0
81	The boundary exposure assessment for continuous monitoring of the low-frequency EMF. , 2015, , .		0
82	Microwave resonant cavity as a reactor for the enzymatic hydrolysis of sucrose. , 2015, , .		8
83	A polycarbonate RFID tag for blood chain tracking. , 2015, , .		5
84	A simple model for SE evaluation of MWCNT composite. , 2015, , .		0
85	Evaluation of a microwave resonant cavity as a reactor for enzyme reactions. Journal of Electromagnetic Waves and Applications, 2015, 29, 2380-2392.	1.0	15
86	Ridge waveguide optimization with PSO algorithm. Journal of Electromagnetic Waves and Applications, 2015, 29, 199-209.	1.0	11
87	Design of low-cost uniplanar AMC structures for UHF applications. , 2015, , .		2
88	EBG substrate synthesis for dual frequency applications using genetic programming. , 2014, , .		0
89	FDFD on Ridged Elliptical Waveguides. , 2014, , .		0
90	Low cost elliptic filter for wireless application. , 2014, , .		2

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91	Electromagnetic compatibility analysis of RFID and implantable medical devices. , 2014, , .		2
92	Wearable rectangular patch antenna for ICT application: Dosimetry evaluation. , 2014, , .		0
93	Challenging the lumped birdcage coil model for high-field MRI. , 2014, , .		2
94	EM level evaluation in indoor environment. , 2014, , .		0
95	Design of a microwave antenna for breast cancer radiometric detection. , 2014, , .		0
96	Improved analysis of high-performances planar waveguide slot arrays. Journal of Electromagnetic Waves and Applications, 2013, 27, 2155-2165.	1.0	2
97	A wire antenna for broadband WLAN applications. , 2013, , .		0
98	Optimization of rectangular ridge waveguides using PSO. , 2013, , .		3
99	A multi-band antenna for WLAN applications. , 2013, , .		0
100	Dosimetry and biological effect evaluation On electromagnetic model of head. , 2013, , .		1
101	High Order FDFD computation of all waveguide modes using a single grid. , 2013, , .		4
102	A wire antenna for broadband WLAN and Wi-Fi applications. , 2013, , .		3
103	A triple-band WLAN antenna. , 2013, , .		0
104	A multi-band WLAN antenna. , 2013, , .		0
105	A wide band wire antenna for WLAN and Wi-Fi applications. , 2013, , .		0
106	Design of Multilayer Dielectric Cover to Enhance Gain and Efficiency of Slot Arrays. International Journal of Antennas and Propagation, 2013, 2013, 1-6.	0.7	7
107	VFD approach to the computation TE and TM modes in circular waveguide on TM grid. , 2012, , .		0
108	COMPUTATION OF THE MODES OF ELLIPTIC WAVEGUIDES WITH A CURVILINEAR 2D FREQUENCY-DOMAIN FINITE-DIFFERENCE APPROACH. Progress in Electromagnetics Research M, 2012, 26, 69-84.	0.5	7

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109	On the Evaluation of the Shielding Effectiveness of Electrically Large Enclosure. Advanced Electromagnetics, 2012, 1, 84.	0.7	18
110	Curvilinear vector finite difference approach to the computation of waveguide modes. Advanced Electromagnetics, 2012, 1, 29.	0.7	2
111	A cylindrical resonant cavity for biological experiments and chemical catalysis. , 2011, , .		1
112	Measurements on the reflectivity of materials in a Reverberating Chamber. , 2011, , .		6
113	Vector Finite Difference approach to the computation of TM waveguide modes. , 2011, , .		0
114	A finite difference polar-catesian grid approach for mode computation in rounded-end waveguides. , 2011, , .		3
115	Finite differences single grid evaluation of TE and TM modes in metallic waveguides. , 2010, , .		8
116	Finite differences variable grid evaluation of TE modes in metallic ridge waveguides. , 2010, , .		1